# **Quick Guide for WINUG**

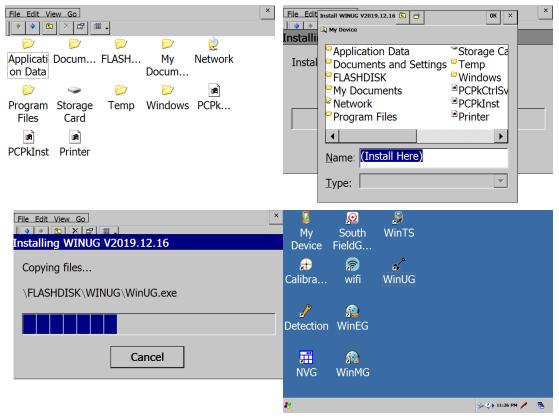
#### **Overview**

WinUG is designed for specific demands of underground mining survey. In the mining business, especially in underground mining, there are certain rules of how things must be done in a certain order. WINUG steers the user through the process and makes them more productive.

# 1. Installation and Registration

### 1.1 Installation

Copy the WINUG.cab file to SD card. Insert to N70 series TS. Go to My Device-Storage Card, double click the WINUG icon. It will automatically install. Please install it in default folder path.



#### 1.2 Registration

Run application, For WINUG,:

Before registering WinUG there is a trial period that will allow you to open and use WinUG 15 times with full functionality. after that, it will ask for register

MEI Register	××	ME	ENU 2019.12.	16 Registere	:d!		×
N70 6E1302					•	+ -	
0039001E07433833			z ×	۲	X	$\downarrow \downarrow \downarrow \downarrow$	
15			COORD	SURVEY	OFFSET	GRADE	
1.00.190822.Marcoo			LINE	<del>1</del>	LIVE	<b>6</b>	
register file			LINEPEG	RST	LIVE	SETTING	
Regester Exit				-	•••		
			Register	DATA	MORE		

code. if you do not have a registration file. Please contact your local distributor.

Press the apostrophe button to load the registration file from memory or SD card. Then press Register button. When it is done, it will show you the version and registration status.

#### 2. Basic Survey setting

It is important to configure the correct parameters to make sure all measurement results are accurate. .

Press the *STAR* key to enter the menu as figure shows below.

BO Tilt	Tilt mode: 2-axis		
O Atmos			)
(): Target	X: -0°00'23" Y: -0°00'38"	2-axis Off	1-axis Back
<i>t</i> 0		S- Q) 12	2:00 AM 🥕 😤

#### 2.1 Leveling:

Turn *ON/OFF, 2-axis, 1-axis*, adjust the tribrach foot screws adjusting the *X* and *Y* value as close as 0 you can.

#### 2.2 <u>Atmos:</u>

Setting the *temperature*, *Pressure and PPM*. You can manually input temperature or get the T-P sensor reading by pressing the Automatic button. Set the prism constant.

<u>=0</u>	Tilt	_ Input—		-
		Temp	25.8	°C
~		Pres	1011.5	hPa
0	Atmos	PPM	5.7	ppm
		PSM	-30	South Large
<b>()</b> ;	Target	Aut	omatic	Save
* 🖲				🎐 🐌 12:07 AM 🥖 🖷

#### 2.3 Target:

*Target* - choose Non-Prism, Prism or Sheet.

*Cross Hair Illumination* – adjust cross hair visibility.

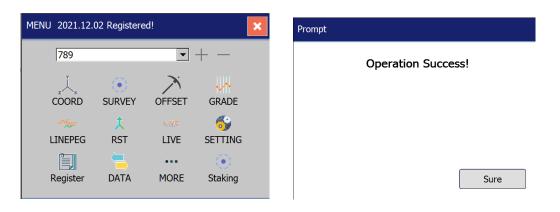
*Laser Pointer* – switch laser **on** or **off** or switch it on for a specific period after which it automatically switches off.

*Laser plumb* – set intensity of the down pointing laser or *switch it off* 

⊨o Tilt	Target Type ● Non-P ○ Sheet ○ Prism
	Cross Hair Illumination
O Atmos	Signal Intensity
	Laser Point Laser plumb
🕕 Target	○ 30 second ○ On ○ 1 ○ 2 ○ 1 minute
	○ 5 minute ● Off ○ 3 ● Off
<b>*</b> /	😌 🕐 12:12 AM 🥖 🖷

### 3. <u>Jobs</u>

To create a job or project, type the project name in blank space and press """ to.



### 4. Survey a Peg

MENU 2021.12	.02 Registere	ed!		×	JOB INFO 🔽 🔀
TRANS 202112	SURVEY \$ SURVEY \$ RST \$	OFFSET LIVE	+ GRADE SETTING	^	Surveyor code RVDB Working place OFFICE Fieldbook NO. 1 Page NO. 1 Backsight point VI9003 Reflector height 0.168 Occupied point OCC
Register	DATA	MORE	Staking		Instrument height -1.566

Press the SURVEY button on the main screen.

Input base information and select the Back sight point and Occupied point.

Points can be selected from a list of existing points or imported from internal memory.

Instrument height allows the user to input both negative and positive values.

Number of Points	1		
Туре	Single FS	•	
Arc Mode	Double Arc	•	
HALimit	40	sec	
VALimit	40	sec	
×			

After we setup station and back sight, we need to set *Number of Points, Type, Measurement mode, Horizontal and Vertical angle limitation.* NB: Minimum number of points is 1 and maximum is 15. *Type* : Single FS or Double FS. *Arc Mode*: Single Arc or Double Arc

Grade • Degrees 0.2864765102 • Percentage 0.5 % • Ratio 200 1: x	We can also input the Grade ( <i>this will</i> <i>calculate the grade elevation for your</i> <i>new Fore sight peg</i> ) The user can input the Grade in one of 3
	options:
	Degrees, Percentage or Ratio
×	

After you have completed all setup information, press the next button to start your survey.

Prism mode	<b>BS Poi</b>	nt Checking	Laser Off Laser On
	HA	VA	SD
VI90	264°04'45"	68°37'21"	2.585
Real:	19°17'21"	68°40'26"	
Diff:	$\rightarrow$ <i>Exit</i>	MEASURE ++++++++++++++++++++++++++++++++++++	

	) BS Poi	nt Checking	0	Turn instrument to backsight and
				press the measure button (1) to set the correct Horizontal angle and display
				<b>č</b> 1 <b>i</b>
	HA	VA	SD	the SD
VI90	264°04'45"	65°14'21"	2.651	Note: the VA is displayed in green
Real:	19°17'23"	68°40'22"		when the instrument is in the correct
Diff:			•	orientation, if the angle is displayed in red the telescope should be turned to
×			$\langle \rangle$	the opposite face

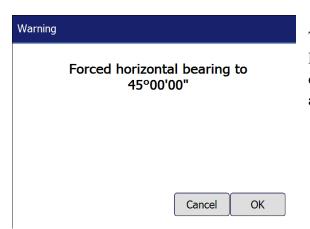
	D BS Poi	nt Checking	
	НА	VA	SD
VI90	264°04'45"	68°37'21"	2.585
Real:	19°17'21"	68°40'25"	2.591
Diff:	dHD = -0.006	dVD = 0.0	000
×			<>

This screen provides feedback on the quality of your setup:

**dHD** is the difference between observed and calculated HD – if the difference is in tolerance this value will be displayed in green color if error is outside of tolerance the value is displayed in red color.

 $d\mathbf{V}\mathbf{D}$  is the difference in Vertical between observed and calculated VD

Warning dHD = 69.556 dVD = 1.488 accept?	If the error for dHD and or dVD exceeded the tolerance this warning will appear to let you know there might be a problem with the setup.	
	If you still want to continue you can press OK	
Cancel OK		



This message confirms that the Horizontal angle will be set to the angle calculated between the occupied point and the backsight point

				$\textcircled{\bullet}$
	FS	NO.	1/1 D1	
	Nam	ne VI002		
	HA	VA	SD	HD
A(D)				
ARe:	246°13'10"	70°41'18	n	
ADi:				
DDi:				
×				<>

#### Follow the prompts on the screen:

WinUG will guide you through the survey process FS no1/1 D1: this means you should turn instrument to foresight observation first peg of two. D1 means this is the first Direct (Face 1) observation to this peg (TP1).

You should also give this peg a name. the name will auto increment for the next peg.

Press the measure button 💮 to measure the SD

				$\mathbf{O}\mathbf{O}$
	FS	NO.1	/1 D1	
	Nar	ne VI002		
	HA	VA	SD	HD
A(D)				
ARe:	246°13'09"	70°41'10"	2.837	2.677
ADi:				
DDi:				
×			(i)	< >

If there is a mistake in the angle or the distance displayed, make sure the target is in line with the crosshairs and press again

If you are happy with the angles and SD displayed press to continue to the next observation

#### **Baseplate change 1**

After we finish Direct (face 1) measurement, we have the possibility to change the horizontal angle (Base Plate Change). Baseplate changes are optional.

Warning	Click okay to agree to a baseplate change or	
Would you like to change angle?	Cancel if you don't want to do a baseplate change	
Cancel OK		
HoldAngle		
Turn the telescope to the reference angle and press OK		
HR: 246°13'30" dHR: 359°59'59"		
unit. 555 55 55		
Set	]	
	Turn your instrument to a reference angle (90°), lock	

wait for horizontal angle to settle and then press Set.

Warning	
Turn the telescope to the transit position	
Sure	Turn telescope to transit position and click on <b>Sure</b> .
FS         NO.1/1         T1           Name         V1002         Image: Compared and Com	
HA VA SD HD	
A(D) 246°13'31" 70°41'03" 2.836 ARe: 146°13'59" 289°19'15" 2.837 2.677 ADi: $-0^{\circ}00'18$ " 0.000 DDi: dHD = $-0.000$ dVD = $-0.000$	Observe foresight peg in transit and measure.

Once you have measured click next.

				$\mathbf{O}\mathbf{O}$	
	BS	Check	ing T1		
	HA	VA	SD	HD	
A(D)	264°04'45"	68°40'19"	2.585		
ARe:	164°05'24"	291°19'40"	2.591	2.413	
ADi:	-0°00'11"	-0°00'00	O'' O	.006	
DDi:	dHD = -0.0	006 d	VD = 0.000		
×			<b>(</b>	<>	Observe you

Observe you backsight peg in transit 1 and

measure.

The instrument will prompt you to do another baseplate change. Proceed as per the steps above.

		•				0
FS	NO.1/1 T2		1	BS Check	king T2	
Name VI002	2					
HA VA	SD	HD	HA	VA	SD	HD
A(D) 246°13'38" 70°40	)'51" 2.836		A(D) 264°04'4	15" 68°40'19"	2.585	
ARe: 335°00'52" 289°1	9'13" 2.836	2.676	ARe: 352°52'0	) <mark>3" 291°19'36</mark> "	2.591	2.413
ADi:0°	°00'04" -0	.000	ADi: 0°00'03	3" 0°00'0	3" 0	.006
DDi: dHD = 0.000	dVD = 0.000		DDi: dHD =	= -0.006	dVD = 0.000	
×		< >	×		(†)	<>

After completeing all obersvations one of the following two screens will be displayed;

If it is Green you are within your limits and the quality is good.

If it is orange you have exceeded your limits and the accuracy is poor. You can select the poor points to save anyway or if you don't select them they will be deleted

To accept your peg you must click on the tick box, input reflector (bob) height, peg to rail and click on **Save Selected**.

<b>VI002</b> HA:9,LIMIT:40		VA:11,L	IMIT:40
PEG to rail	0.000		
Reft.ht	0.431		
Cancel			Save Selected

<b>VI002B</b> HA:237,LIMIT:40		VA:1531,LIMIT:40
PEG to rail	0.000	
Reft.ht	0.000	
Cancel		Save Selected

# 5. OFFSET

Step one is to set up the station, it will reuse the previous station point and back sight point information, if you need to change, please input the updated info and do backsight check again.

JOB INFO 🔽 🔀	Backsight Point
Surveyor code RVDB Working place OFFICE Fieldbook NO. 1 Page NO. 1	HA VA SD
Backsight point VI9003	Bear(BS): 262°40'13" 68°57'02" 2.554
Reflector height 0.168	Bear(Real): 168°16'01" 69°00'28" 2.559
Occupied point STATION	Diff(Dist): $dHD = -0.006$ $dVD = 0.001$
Instrument height -1.593	$\mathbf{x} \qquad  \mathbf{x} \qquad x$
Offset NO.2	
Name     Offset2     □ Offset R     0       Ref H1     0     □ Offset L     0       Code     □     □     □	
HA VA SD	
BS: 262°40'13" 68°57'02" 2.554	
Real: 272°10'57" 89°49'56" 2.356	
×	

After station setup. We start offset measurement. You can change the name of your offset

Press measure button to get result and press next to save and go to the next offset point.

#### **Cubby offsetting**

To offset a cubby, choose the direction to offset by either clicking **Offset R** or **Offset L** (direction from surveyors' perspective), then input offset value. Please note it will only allow you to input a positive value.

Offset NO.3  $\odot$ Offset3 ☑ Offset R 2 Name Ref H1 0 □ Offset L 0 Code CB HA VA SD BS: 262°40'13" 68°57'02" 2.554 89°49'54" Real: 275°53'42" 2.550 < > $\times$ 

Press  $\times$  to end the process and return to the main menu.

Warning	
Want to quit yo	ur current job?
	Cancel OK

# 6. <u>Grade</u>

Step one is to set up the station, it will reuse the previous station point and back sight point information, if you need to change, please input the updated info and do backsight check again.

JOB INFO	BS Point Checking
Surveyor code RVDB Working place OFFICE Fieldbook NO. 1 Page NO. 1 Backsight point VI9003 😴 Reflector height 0.168 Occupied point STATION 😴 Instrument height -1.593	HA VA SD VI90 262°40'20" 68°57'23" 2.554 Real: 262°40'39" 69°00'19" 2.559 Diff: dHD = -0.006 dVD = 0.000 $\times$ $\longrightarrow$ $\checkmark$ $\checkmark$ $\checkmark$
Set the line peg	Sight the line peg or the direction of development. This is the direction in which the grade will be carried forward
271°10'47" 69°00'12" <sub>HA</sub> va so	

Image: Weight of the line peg       Image: Weight of the line peg         271°10'47"       69°00'12"       2.516         271°10'47"       69°00'13"          HA       VA       SD         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of the line peg       Image: Weight of the line peg         Image: Weight of t	
Warning HR:271°10'47" Continue?	Direction in which grade will be installed is displayed press OK if the direction is correct.
Cancel OK	
Grade O Degrees 0.2864765102 d,ms O Percentage 0.5 % Ratio 200 1: x Negative	The slope of the grade pegs can now be defined. It can be input either Degrees, Percentage or a Ratio. If the slope needs to go downhill also select the negative tick box
×	
Set target point name: GP1 0°00'03" Z=-2557.492	Input the name of the grade-peg to be installed Turn the instrument to a position on the sidewall where you would like to install the grade peg and adjust the Telescope up or down until the reading on the screen display Zero – this is the position you should install your grade peg.
Next	Press next and turn the instrument to where you would like to install the next Grade Peg

Set target point	
name: GP2	
0°00'01" Z=-2557.494	
×	Next
Warning Want to quit your current job?	
Cancel Of	(

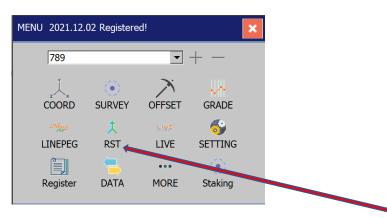
# 7. <u>LIVE</u>

The live mode is only for simple measurement of angle and distance, it can't be saved in memory

Press ESC to end this process and back to main menu.

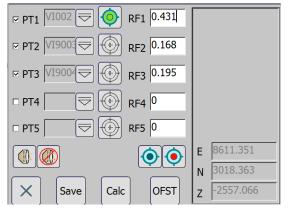
	Backsight I	Point Checkin	g			
					109°08'32 Horizontal angle	II
	HA	VA	SD		88°53'22"	
BS3:	45°00'00"	89°16'19"	6.690	3.469	3.468	0.067
Real:	44°59'55"	89°16'23"	6.692	Slant distance	Horizontal distance	Vertical distance
Diff:	dHD = -0.002	dVD = 0.0	000	0.000 North	0.000 East	0.000 Zenith
×		-	$\langle \rangle$			Mea. ESC

#### 8. <u>Resection</u>



To get the station point from two or more known points select RST from main menu to do a resection. Pick up the reference point from memory or import from SD card. Observe the reference point and press measure button.

JOB INFO	× ×	□ PT1 □ PF1 0 Click drop down to select peg
Surveyor code RVDB		□ PT2 🕞 💮 RF2 0
Working place OFFICE		□ PT3 🕞 🕀 RF3 0
Fieldbook NO. 1		□ PT4 🔍 🕀 RF4 0
Page NO. 1		
Name OCC		□ PT5 □
Instrument height 1.566		
		X Save Calc OFST Z



Points that have been measured will have a checked tick box and the measure button will turn green.

After that, you can pick up the check box which reference points you want to involve in the calculation.

	02:0.0019 03:0.0046 ⊵ PT1	/1002 🗢 🝥 RF	1 0.431	VI002:0.0029 VI9004:0.0026
	04:0.0021   PT2	/1900: 🗢 🍥 Rf	=2 0.168	V19004.0.0020
₽T3 VI9004 €	⊡ PT3	/19004 🗢 🝥 RF	=3 0.195	
□ PT4 🕞 🕂 RF4 0	□ PT4 [	RF	=4 0	
□ PT5 🕞 🕂 RF5 0	□ PT5	RF	-5 0	
	513.659 017.706			E 8613.658 N 3017.705
	2556.496	Save		z -2556.496

If the accuracy is not good enough, Change the reference points by unticking and ticking the checkboxes and recalculate or redo the measurements. If you are satisfied with the accuracy, Press SAVE button.

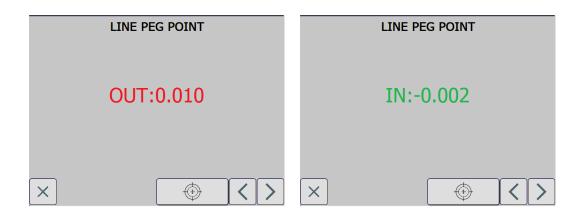
# 9. LinePeg

Station setup by measuring your backsight.

JOB INFO		) BS Poi	nt Checking	0
Surveyor code RVDB				
Working place OFFICE Fieldbook NO. 1		HA	VA	SD
Page NO. 1	VI90	262°40'20"	68°57'23"	2.554
Backsight point VI9003 🤝	Real:	262°40'19"	69°00'19"	2.559
Reflector height 0.168	Diff:	dHD = -0.006	dVD = 0.0	00
Occupied point STATION 🔄 Instrument height -1.593	×		-	~ <>

To define a line, you can do that by defining a start and end point or inputting a bearing.

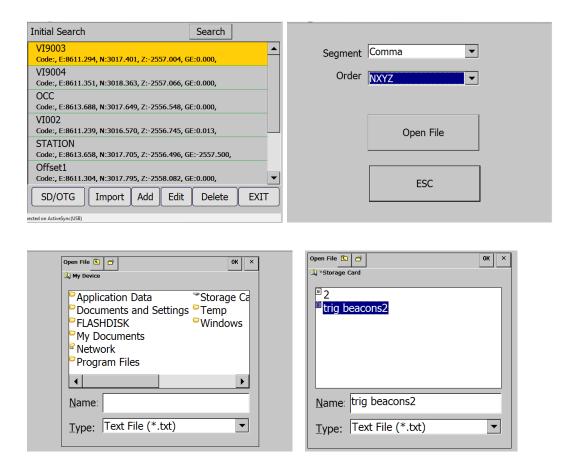
		NEW P	EG	•		INPUT	
StartP	г		🗆 Bear	ring / EndPT			
Name	VI9003	$\overline{rightarrow}$	Name	VI9004	$\overline{\bigtriangledown}$	3°23'27"	
Ν	3017.401		Ν	3018.363		Input Bearing : <mark>3.2327</mark>	
E	8611.294		E	8611.351		Input Slope : 0	
Z	-2557.004		Z	-2557.066			
	(†)	EndPT					
×				<		×	$\langle \rangle$



#### 10. Import & Export

#### 9.1 Import

DATA import in COORD submenu.



It can import coordinate data from other job, click the check box and import to existing

project.

Initial Search Search	789
VI9003 Code:, E:8611.294, N:3017.401, Z:-2557.004, GE:0.000,	B7 Code:, E:-15858.611, N:2909043.697, Z:1583.352, GE:0.000,
VI9004 Code:, E:8611.351, N:3018.363, Z:-2557.066, GE:0.000, OCC	B8 Code:, E:-15754.205, N:2908984.052, Z:1588.430, GE:0.000,
Code:, E:8613.688, N:3017.649, Z:-2556.548, GE:0.000, VI002	B5 Code;, E:-15675.592, N:2909172.532, Z:1586.565, GE:0.000,
Code:, E:8611.239, N:3016.570, Z:-2556.745, GE:0.013, STATION Code:, E:8613.658, N:3017.705, Z:-2556.496, GE:-2557.500,	B9 Code:, E:-15970.485, N:2908937.462, Z:1582.101, GE:0.000, B6
Offset1 Code:, E:8611.304, N:3017.795, Z:-2558.082, GE:0.000,	Code: F. 18766 701 N.2000104 000 7.1802 270 CF.0 000
SD/OTG Import Add Edit Delete EXIT	Cancel OK
ected on ActiveSync(USB)	

Clik OK and the cordinates will be uploaded to your current job.

Initial Search				Search	
Offset2					<b></b>
Code:, E:8611.3	75, N:3018.8	39, Z:-25	58.082, GE	E:0.000,	
Offset3					
Code:CB, E:861	1.518, N:3019	.939, Z:-:	2558.082,	GE:0.000,	
GP1					
Code:, E:8612.0	30, N:3014.8	83, Z:-25	57.492, GE	E:0.000,	
B7					
Code:, E:-15858	8.611, N:2909	043.697,	Z:1583.35	52, GE:0.000,	
B8					
Code:, E:-15754	.205, N:2908	984.052,	Z:1588.43	80, GE:0.000,	
B9					
Code:, E:-15970	.485, N:2908	937.462,	Z:1582.10	01, GE:0.000,	-
SD/OTG	Import	Add	Edit	Delete	EXIT

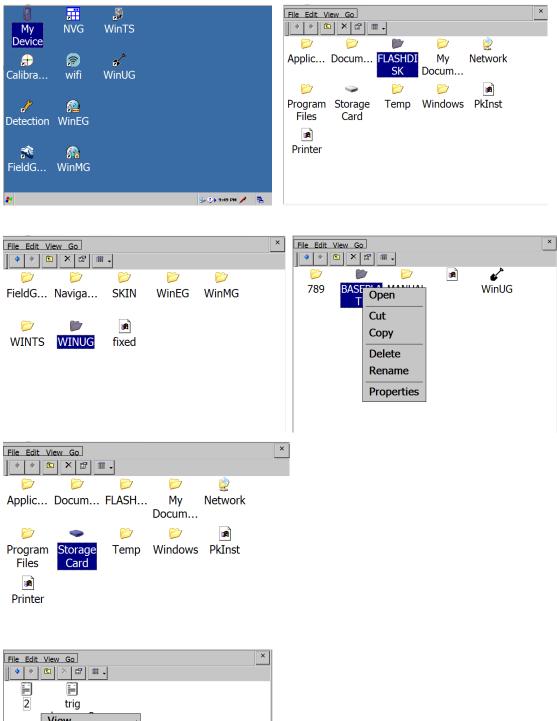
Also, it can import from SD card in TXT file.

Segment Comma	Open File C C C X X
Order NYXZ	PNavigation SKIN WinEG WinMG
Open File	WinTS WINUG
ESC	Name: Type: Text File (*.txt)

# 9.2 Data export

All data files are in installation path,

My device/Flashdisk/WINUG/, you can copy to SD card.

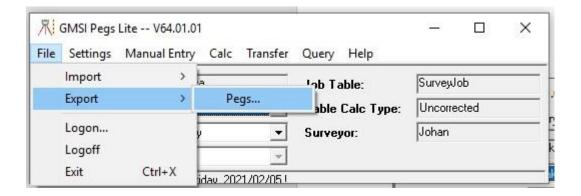


trig	
View •	
Arrange Icons By	
Refresh	
Paste	
Paste Shortcut	
New Folder	
Properties	
	trig View Arrange Icons By Refresh Paste Paste Paste Shortcut New Folder

JOB 002	Save As ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
<ul> <li>□ Survey</li> <li>□ Offsets</li> <li>□ Grades</li> <li>□ Line peg offset</li> <li>□ Resection</li> <li>□ Logfile</li> </ul>	<ul> <li>Su</li> <li>Application Data</li> <li>Documents and Settings</li> <li>Temp</li> <li>FLASHDISK</li> <li>Windows</li> <li>Wy Documents</li> <li>Network</li> <li>Program Files</li> <li>Name: 1PEG_VC2843_SURVEY_D.dat</li> <li>Type: Text File (*.dat)</li> <li>rt</li> </ul>

# Pegs Lite to Total station via USB

Open Pegs Lite, File > Export > Pegs



Select Destination which is **File** Change content to (**Peg x, y, z**) Change format to (**Commas**)

reate Output (Pegs)			
Destination		Irientation	
C Printer		Β	Portrait
File Append:			C Landscape
C Screen		Paper:	 A4
C Instrument		r apoi.	144
Printer			100.0
Name: HP LaserJet Pr	ofessional CP102	20 Series	-
E I	- Default	1.0	
Font: Courier New		Size:	6 💌
Select Pegs From	То	?	<u>0</u> K
Date: 2021/02/05 -	2021/02/05 👻	1 E	<u>C</u> ancel
	2021/02/05		Select <->
Peg:			
Surveyor: Johan	-	] [	
Sgl or Dbl Foresight : 🔲	E <u>x</u> ceeds limits		
	Format :		
- Content :			
- C <u>o</u> ntent : Coords only : C	Header?	Г	
Coords only :	Header?	C C	- Source :
Coords only : C Peg. x, y, z : C	1 1 5 6 5 5 5 5 5 5	E C e	Source : Permanent :
Coords only : C Pea, x, y, z C Pegs & coords : C	Header? Spaces :	LCec	
Coords only : C Pea, x, y, z C Pegs & coords : C	Header? Spaces : Commas :	С	Permanent :
Coords only :     C       Pea, x, v, z :     C       Pegs & coords :     C       Comprehensive :     C	Header? Spaces : Commas : CSV :	С Ч	Permanent :   Line Pegs :

Click select twice to proceed to next screen Add your peg and backsights and click OK when done.

C Printer	- Orientatio	n
ⓒ Eile Append: □ ○ Screen ○ Instrument	Paper:	∩ <u>L</u> andscape  A4
Printer Name: HP LaserJet Professional C	:P1020 Series	<b>•</b>
Fon <u>t</u> : Courier New 💌 D	efault Size:	6 💌
Select Pegs		<u>0</u> K
W0426 Add <u>P</u> eg	Add B7S	
		<u>C</u> ancel
		<u>C</u> ancel S <u>e</u> lect <->

To select the folder to save your coordinate file click on This PC > USB Drive > Flashdisk > WinUG > Import

Give file name at the bottom and also change Save as type to **Text** (\*.txt) and click Save when you are done.

Select Pegs Report						2
→ 👻 🛧 📙 > USB Drive (E:) > FLASHDISK > WINUG	> Import		v Ö	Search Import		P
rganize 👻 New folder						()
Koklo (\\pdcsrv( ^ Name     VI (\\pdcsrv01\D     USB Drive (E:)     Application Data     Documents and     FLASHDISK     My Documents     New Folder     Program Files     Temp     Windows     USB Drive (F:)     BAPINP~1	Date modified No items mate	21	ize			
File <u>n</u> ame: Workplace						9
Save as type: Text (*.txt)						
Save as type: Text (*.bd) Hide Folders				Save	Cance	1

File should be output in the sequence below: check if you are not sure

Peg name,	X coordina	te, Y coordinate	e, Elevation,	Grade Elevation
W0419,	3031.290,	8672.982,	-2556.957	0.000
W0426,	3021.193,	8690.431,	-2557.368	0.000
W0427,	3032.801,	8658.587,	-2556.662	0.000
W0448,	3016.710,	8616.682,	-2556.581	0.000

Once done sending the file to PC remove USB cable from Total station and switch off the total station.

Switch on total station and open Win UG

Create a job and once in the Job go to Coord > choose SD/OTG > Change order to NYXZ and click on Open File

Segment Order	Comma 🔹 NXYZ
	Open File
	ESC

Navigate to the folder with your file by clicking on Flashdisk > WinUG > Import then seect your workplace file and press enter on the total station and your coordinates will be added to your job.

Open File	ок ×
Workplace.txt	
Name: Workplace.txt	
Type: Text File (*.txt)	-

Back in the Job if you select Coord you will find all the coordinates that were in the uploaded file.

Initial Search
W0419
Code:, E:8672.982, N:3031.290, Z:-2556.957, GE:0.000,
W0426
Code:, E:8690.431, N:3021.193, Z:-2557.368, GE:0.000,
W0427
Code:, E:8658.587, N:3032.801, Z:-2556.662, GE:0.000,
W0448
Code:, E:8616.682, N:3016.710, Z:-2556.581, GE:0.000,
8
SD/OTG Import Add Edit Delete EXIT

Downloading from Total station to PC via USB

Plug total station to PC via usb cable

Open Pegs lite > Click on File> Import> Import pegs> From Raw File>

Import     Import Pegs     from Interface File       Export     Import Tache     from Raw File       Logon     Options     from Stored Raw Data	from Interface File			Settings	File
Ontions from Stored Baw Data	Ja non incentice rite	Import Pegs	>	Import	
Options from Stored Raw Data	che > from Raw File	Import Tache	>	Export	
Logoff Purge Files from Instrument				Logon Logoff	

Select the Browse option to search for your data

mport <u>D</u> efaul	ts	Apply?	<u> </u>
Date Surv. :	2021/02/05 💌	Ves Ves	
Surveyor :	A.HAUPTFLEISCI -	∏ No	Cancel
Field Book :	Datalogger	🔽 Yes	
Fld Bk Page :	1	🔽 Yes	
Environment :	Basal 💌	∏ No	
Shaft :	РНАК	∏ No	
Add W'place :		∏ No	
Workplace :	0		
	ollowing Pegs Import? ietup Survey (Offsets only)		
nstrument Op Note : Settings	are saved when [OK] is pre		Restore :
Instrument Op Note : Settings Port : 3	are saved when [OK] is pre	0,n,8,1	My Default
Instrument Op Note : Settings Port : 3 Instrument :	are saved when [OK] is pre Settings: 960 opcon	0,n,8,1 est I/F	My Default Instr. Default
Instrument Op Note : Settings Port : 3 Instrument :	are saved when [OK] is pre	0,n,8,1 est I/F	My Default

To navigate to the folder with your Survey data click on This PC > USB Drive > Flashdisk > WinUG > New Job > Survey and select the raw data file (\_R.dat) and click open

→ * ↑ → This	PC > USB Drive (E:) > FLASHDISK >	WINDG > NEW JOB > SURV	ΕΥ	v Ö	Search SURVEY		-
ganize 👻 New folder					833	•	
3D Objects ^	Name	Date modified	Type	Size			
Desktop	LC_SURVEY_C.dat	2000/01/01 00:23	DAT File		1 KB		
Documents	LC_SURVEY_D.dat	2000/01/01 00:23	DAT File		1 KB		
- Downloads	LC_SURVEY_R.dat	2000/01/01 00:23	DAT File		1 KB		
Music							
Pictures							
Videos							
OS (C:)							
DATA (D:)							
USB Drive (E:)							
USB Drive (E:)							
USB Drive (E:) USB Drive (F:) KokJo (\\pdcsrv01							
USB Drive (E:) USB Drive (F:) KokJo (\\pdcsrv01 VI (\\pdcsrv01\Da							
DATA (D:) USB Drive (E:) USB Drive (F:) Koklo (\\pdcsrv01 VI (\\pdcsrv01\Da USB Drive (E:)							